

# VA SALT LAKE CITY HEALTH CARE

500 Foothill Drive  
Salt Lake City, UT 84148-0002

## SOMATOM DEFINITION AS 128



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Project #: 1301723

**SIEMENS**  
**SIEMENS MEDICAL SOLUTIONS**  
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ARCHITECTURAL NOTES

- 1) ALL PRELIMINARY EQUIPMENT LAYOUTS SUBMITTED BY SIEMENS MEDICAL SOLUTIONS, INC. (SMS HEREFTER) ARE BASED ON THE RECOMMENDED SPACE NECESSARY FOR THE OPERATION AND AVAILABILITY OF THE EQUIPMENT BEING PROPOSED. SMS WILL NOT SUBMIT AN EQUIPMENT LAYOUT THAT IS NOT IN THE BEST INTEREST OF BOTH THE CUSTOMER AND SMS. ALL EQUIPMENT LAYOUTS ARE BASED EITHER ON AN ACTUAL SITE LOCATION SURVEY OR ARCHITECTURAL DRAWINGS SUPPLIED TO SMS. SMS WILL NOT BE RESPONSIBLE FOR ANY ALTERATIONS THAT ENCROACH WITHIN DESIGNATED SAFETY AND SERVICE CLEARANCE ZONES AS INDICATED ON DRAWINGS (IE. PIPE, CHASES, VENTILATION DUCTS, CASEWORK, AND SOFFITS, ETC.) MADE BY THE CUSTOMER OR REQUIRED BY A CUSTOMER'S ARCHITECTITURAL FIRM ONCE PRELIMINARY DRAWINGS HAVE BEEN SUBMITTED AND APPROVED. DO NOT ALTER ANY SPECIFICATIONS AND/OR DIMENSIONS WITHOUT CONTACTING AND RECEIVING WRITTEN CONFIRMATION FROM SMS PROJECT MANAGER.
- 2) SMS IS NOT AN ARCHITECTURAL OR ENGINEERING FIRM. DRAWINGS SUPPLIED BY SMS ARE NOT CONSTRUCTION DRAWINGS. THEREFORE, THESE DRAWINGS ARE TO BE USED ONLY FOR INFORMATION TO COMPLEMENT ACTUAL CONSTRUCTION DRAWINGS AVAILABLE FROM A CUSTOMER APPOINTED ARCHITECTURAL REPRESENTATIVE OR A CUSTOMER'S ENGINEERING DESIGN GROUP. THE CUSTOMER'S ARCHITECT AND GENERAL CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE CODES AND PROFESSIONAL DESIGN REQUIREMENTS.
- 3) THE CUSTOMER IS RESPONSIBLE FOR ALL ROOM AND AREA PREPARATION COSTS, PROFESSIONAL FEES, PERMITS, REPORTS, AND INSPECTION FEES.
- 4) EQUIPMENT WARRANTIES, EXPRESSED OR IMPLIED ON THE PART OF SMS SHALL BE CONTINGENT UPON STRICT COMPLIANCE WITH THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL AND RECOMMENDATIONS AND REQUIREMENTS CONTAINED IN THESE DRAWINGS, UNLESS SPECIFIED OTHERWISE.
- 5) ALL DIMENSIONS SHOWN ARE TAKEN FROM FINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- 6) THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST. ACTUAL PROTECTION REQUIREMENTS SHALL BE SPECIFIED BY A REGISTERED RADIATION PHYSICIST AT CUSTOMER'S ENGAGEMENT AND EXPENSE. RESPONSIBILITY FOR ALL INFORMATION AS TO THE ROOM LOCATION, USE, AND THE PROVIDED WIRES TO SMS EXAMINATIONS TO BE PERFORMED PER TIME PERIOD SHALL BE PROVIDED TO THE PHYSICIST BY THE CUSTOMER. THE CUSTOMER SHALL FURTHER TAKE ALL RESPONSIBILITY IN THE COMMUNICATION AND COORDINATION OF ACTIVITIES OF THE RADIATION PHYSICIST AND THE ARCHITECTURAL REPRESENTATIVE.
- 7) SMS SHALL BE RESPONSIBLE FOR SMS EQUIPMENT INSTALLATION AND CALIBRATION, CONNECTION AND INSTALLATION OF SMS PROVIDED CABLES, AND CONNECTION OF CONTRACTOR PROVIDED WIRES TO SMS EQUIPMENT. IN THE EVENT THAT SPECIFIC TRADE RULES OR LICENSE REQUIREMENTS PROHIBIT THIS, THE CUSTOMER SHALL INITIATE THE SERVICES OF APPROVED OTHER CONTRACTORS AND PAY FOR SELECTED, APPROVED PARTIES TO PERFORM THIS WORK WITH JOB SUPERVISION TO BE PROVIDED BY SMS. CALIBRATION WHEN ACCOMPLISHED OUTSIDE OF NORMAL INSTALLATION SEQUENCES DUE TO CONTRACTOR OR TRADE RULE ACTIONS OR REQUIREMENTS SHALL BE SUPPORTED BY, CHARGED TO, AND ACCEPTED BY THE CUSTOMER AS AN ADDITIONAL INSTALLATION EXPENSE.
- 8) THE CUSTOMER SHALL VERIFY WITH SMS PROJECT MANAGER FINAL INSTALLATION DRAWINGS THE LOCATIONS AND TRAVEL OF ALL ANCILLARY EQUIPMENT TO BE CEILING OR WALL MOUNTED (IE. O.R. LIGHTS, MEDICAL GAS COLUMNS, PHYSIOLOGICAL MONITORING INJECTORS, CRT PLATFORMS, SPRINKLER HEADS, SMOKE DETECTORS, ELECTRICAL OUTLETS, HVAC GRILLES, SPEAKERS, AND GENERAL ROOM LIGHTING, ETC.).
- 9) THE GENERAL CONTRACTOR/CUSTOMER SHALL BE RESPONSIBLE FOR ALL FINAL PAINT, TOUCH-UP AND ANY COSMETIC OR TRIM WORK WHICH NEEDS TO BE OR IS REQUIRED TO BE COMPLETED AFTER THE INSTALLATION OF THE SMS EQUIPMENT AND ANY ASSOCIATED SUPPORT APPARATUS.

SITE READINESS GUIDELINES

- THE FOLLOWING GENERAL CONDITIONS ARE NECESSARY TO HAVE THE STATUS OF "READY SITE"
- 1) PROPER POWER AVAILABLE AT SIEMENS EQUIPMENT POWER CABINET LOCATION AND ALL POWER OUTLETS FUNCTIONING.
  - 2) AIR CONDITIONING/HUMIDIFICATION SYSTEMS COMPLETE, TESTED, AND FUNCTIONING PROPERLY ACCORDING TO SIEMENS SPECIFICATIONS.
  - 3) PROPER LIGHTING INSTALLED AND FUNCTIONING.
  - 4) PLUMBING COMPLETE EXCEPT FOR ANY FINAL CONNECTIONS TO SIEMENS EQUIPMENT.
  - 5) ALL CABLE TRAYS/DUCTS/CONDUITS CORRECTLY SIZED, LOCATED, AND INSTALLED ACCORDING TO THE SIEMENS DRAWINGS.
  - 6) ALL REINFORCEMENT PLATES/UNISTRUT INSTALLED AS REQUIRED.
  - 7) ROOM FOR EQUIPMENT INSTALLATION AND IMMEDIATE VICINITY IS DUST-FREE AND IS TO REMAIN SO FOR THE DURATION OF THE INSTALLATION.
  - 8) A SECURE AREA (APPROXIMATELY 10' x 10') IS AVAILABLE AT EQUIPMENT DELIVERY FOR PARTS AND INSTALLATION TOOLS.
  - 9) CUSTOMER SUPPLIED CAMERAS AND PROCESSORS INSTALLED.
  - 10) CUSTOMER APPROVAL FOR SIEMENS REMOTE SERVICES (SRS) CONNECTION, AND CUSTOMER'S I.T. CONTACT INFORMATION AND IP ADDRESSES ESTABLISHED.
  - 11) WALLS TO BE PRIME AND PAINTED, FLOORS TO BE TILED EXCEPT IN AREAS OF THE EQUIPMENT BASE PLATES.
- IF THESE CONDITIONS ARE NOT MET, THE SIEMENS PROJECT MANAGER AND THE DESIGNATED SIEMENS INSTALLATION SUPERVISOR SHALL RESCHEDULE THE INSTALLATION START DATE. NOTE: ADDITIONAL COST MAY BE INCURRED BY THE CUSTOMER/CONTRACTOR AND DELIVERY DATES MAY NEED TO BE RESCHEDULED, WHEN THE SIEMENS SITE READINESS GUIDELINES ARE NOT MET.

RESOURCE LIST (SMS USE ONLY)

DESIGNATION	PG NUMBER	DATE
SOMATOM DEFINITION AS	C2-029.891.01.24.02	01.13
COMMON CT	CT00-000.891.04.02.02	03.13
COMMON CT OPTIONS	CT00-000.891.03.19.02	11.12

DEFINITION AS  
05/03/13

SIEMENS

VA SALT LAKE CITY HEALTH CARE

500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148-0002  
CT SUITE 1D05 - SOMATOM DEFINITION AS 128

PROJECT #:

1301723

SHEET:

SHEET 1 OF 9

DRAWN BY:  
J. DRAMIS

A-101

THE USE OR REPRODUCTION OF THIS TITLE BLOCK WITHOUT SIEMENS AUTHORIZATION WILL RESULT IN PROSECUTION UNDER FULL EXTENT OF THE LAW.

ALL RIGHTS ARE RESERVED.

SCALE AS NOTED

REF. # 30164507

SYMBOL DATE DESCRIPTION

-ISSUE BLOCK-

EQUIPMENT LEGEND

NO	DESCRIPTION	SMS SYM	WEIGHT (LBS)	BTU/HR TO AIR	DIMENSIONS (INCHES)			REMARKS
					W	D	H	
1	OPERATING CONSOLE W/KEYBOARD AND CONTROL BOX	154	154	---	47 1/4	31 1/2	28 3/8	
2	19" FLAT SCREEN MONITOR ICS	20	20	256	16 9/16	8 1/4	16 1/16	ON CONSOLE/COUNTER
3	POWER CONNECTION TERMINAL - ICS	---	---	---	13 9/16	2 15/16	5 11/16	WALL MOUNTED
4	DVI SPLITTER - ICS	---	---	---	15 3/4	3 15/16	11 13/16	MOUNTED ON THE CONSOLE/CONTAINER
5	SYNGO ACQUISITION WORKPLACE	66	<66	1,706	9 13/16	29 1/2	18 1/2	OFF FLOOR/IN CONTAINER
6	CONTAINER FOR ICS/IES	77	77	---	31 1/2	31 1/2	28 3/8	HOUSING FOR ICS/IES
7	SOMATOM DEFINITION AS GANTRY	4850	4,850	3,412*	93 11/16	36 5/8	78	*ADDITIONAL HEAT DISSIPATED TO WATER
8	PATIENT TABLE - MULTI PURPOSE TABLE	1124	1,124	1,024	29 1/2	95 11/16	33 7/16	
9	POWER DISTRIBUTION CABINET & UPS	1373	1,373	6,824	35 7/16	27 1/4	76 3/4	UPS LOCATED INSIDE OF PDC
10	IMAGE RECONSTRUCTION SYSTEM	106	106	5,122	12 1/4	30 3/4	19 5/8	
11	HEAT EXCHANGER CABINET - WATER/AIR SPLIT	904	904	3,412	39 3/8	27 1/4	77	
12	OUTDOOR UNIT - WATER/AIR SPLIT	397	102,364	95 1/2	43 1/4	40 3/16		
13	CARE VISION DUAL MONITOR	157	157	512	---	---	---	CEILING MOUNTED
14	EATON SURGE PROTECTIVE DEVICE PANEL	13.5	13.5	---	7 1/2	6 11/16	12	WALL MOUNTED
15	MEDRAD DISPLAY CONTROL UNIT	8	8	---	12 1/2	9	13 1/2	HEIGHT WITH SCREEN UP
16	MEDRAD BASE UNIT	14	14	---	11	8 3/4	11 1/2	UNDER COUNTER ON SHELF
17	CEILING MOUNTED MEDRAD INJECTOR	106	106	---	---	---	---	SEE MFG SPECIFICATIONS

NOISE LEVEL

SYSTEM COMPONENT	DECIBEL LEVEL (AT 3'-3" DISTANCE)
GANTRY	<68
PATIENT TABLE	<60
PDC CABINET	≤55
IRSmx2C TOWER (40/64 SLICE CONFIG.)	50 TO 55 (1)
IRSmx2b TOWER (128 SLICE CONFIG.)	<55
HEAT EXCHANGER - WATER/AIR SPLIT	<60

1) NOISE DEPENDS ON THE ROOM TEMPERATURE AND THE PROCESSOR LOAD.

ENVIRONMENTAL/POWER AUDIT

AS AN INDICATION OF OUR COMMITMENT TO QUALITY, SIEMENS MAY, AT NO COST TO YOUR FACILITY, CHECK THE OPERATING ENVIRONMENT AFTER SYSTEM TURNOVER TO DETERMINE IF THE REQUIREMENTS FOR TEMPERATURE, HUMIDITY, POWER, AND GROUNDING ARE MET AS PER SIEMENS' PUBLISHED SPECIFICATIONS. SIEMENS WILL GENERATE A WRITTEN REPORT DETAILING THE ENVIRONMENTAL AND ELECTRICAL CONDITION OF THE SITE AFTER TURNOVER AND WILL SHARE THE REPORT WITH YOU. IN THE EVENT WE IDENTIFY ANY ENVIRONMENTAL/POWER DEFICIENCIES AT THE SITE, YOUR FACILITY WILL BE REQUESTED TO CORRECT DEFICIENCIES WITHIN THIRTY (30) DAYS. SHOULD ANY CORRECTIVE ACTIONS BE NECESSARY, AND UPON REQUEST, SIEMENS WILL PROVIDE GUIDANCE IN AN EFFORT TO FACILITATE RESOLUTION. PLEASE BE ADVISED THAT AFTER 30 DAYS NOTICE ANY REPAIR OR MAINTENANCE SERVICES NECESSITATED BY SEVERE DEFICIENCIES WILL FALL OUTSIDE YOUR WARRANTY COVERAGE.

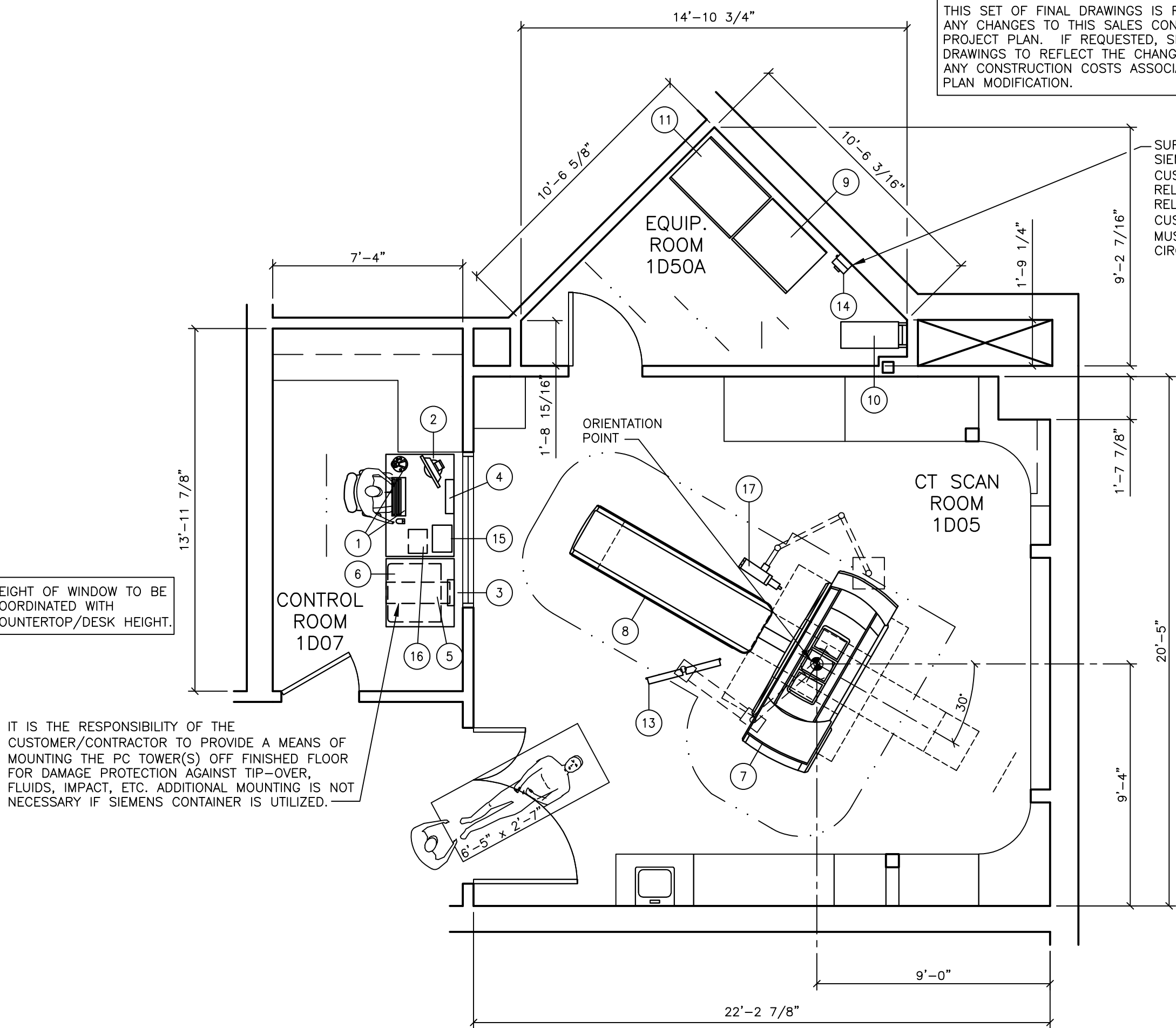
THIS SET OF FINAL DRAWINGS IS REFLECTIVE OF THE LATEST SALES CONFIGURATION. ANY CHANGES TO THIS SALES CONFIGURATION MAY REQUIRE A REVISION TO THIS PROJECT PLAN. IF REQUESTED, SIEMENS WILL PRODUCE A REVISED SET OF FINAL DRAWINGS TO REFLECT THE CHANGES. HOWEVER SIEMENS IS NOT RESPONSIBLE FOR ANY CONSTRUCTION COSTS ASSOCIATED WITH THE CHANGES THAT OCCUR FROM THIS PLAN MODIFICATION.

SURGE SUPPRESSOR TO BE SUPPLIED BY SIEMENS, LOCATED AND INSTALLED BY CUSTOMER/CONTRACTOR. IF IT IS TO BE RELOCATED, IT MUST BE RELOCATED, RELOCATED AND REINSTALLED BY THE CUSTOMER/CONTRACTOR, IF NECESSARY. IT MUST BE LOCATED WITHIN 3'-0" OF THE CIRCUIT BREAKER.

THE OUTDOOR COOLING UNIT IS SUPPLIED BY SIEMENS, LOCATED AND INSTALLED BY THE CUSTOMER/CONTRACTOR. THE INDOOR HEAT EXCHANGER CABINET IS SUPPLIED AND LOCATED BY SIEMENS, INSTALLED BY THE CUSTOMER/CONTRACTOR. IF THE SYSTEM IS TO BE RELOCATED, THE OUTDOOR COOLING UNIT IS TO BE DEINSTALLED, RELOCATED AND REINSTALLED BY THE CUSTOMER/CONTRACTOR, IF NECESSARY. THE INDOOR HEAT EXCHANGER CABINET IS RELOCATED BY SIEMENS, INSTALLED BY THE CUSTOMER/CONTRACTOR.

HEIGHT DIFFERENCE BETWEEN HEAT EXCHANGER AND OUTDOOR UNIT MUST NOT EXCEED ±65-7".

THE MINIMUM ROOM VOLUME REQUIRED FOR THE WATER-AIR SPLIT HEAT EXCHANGER IS 424 CUBIC FEET.



ARCHITECTURAL EQUIPMENT PLAN

SCALE: 1/4" = 1'-0"

ROOM MEASUREMENTS

ALL ROOM MEASUREMENTS AND ROOM DETAIL SPECIFICATIONS MUST BE VERIFIED ON SITE PRIOR TO BEGINNING ANY CONSTRUCTION WORK.

STATE AGENCY REVIEW

PRIOR TO SIEMENS EQUIPMENT INSTALLATION, APPROVAL OF CONSTRUCTION OR STRUCTURAL MODIFICATIONS UTILIZING X-RAY FOR DIAGNOSTIC OR THERAPEUTIC PURPOSES, MUST BE OBTAINED BY THE CUSTOMER FROM THE APPROPRIATE STATE AGENCY, IF APPLICABLE.

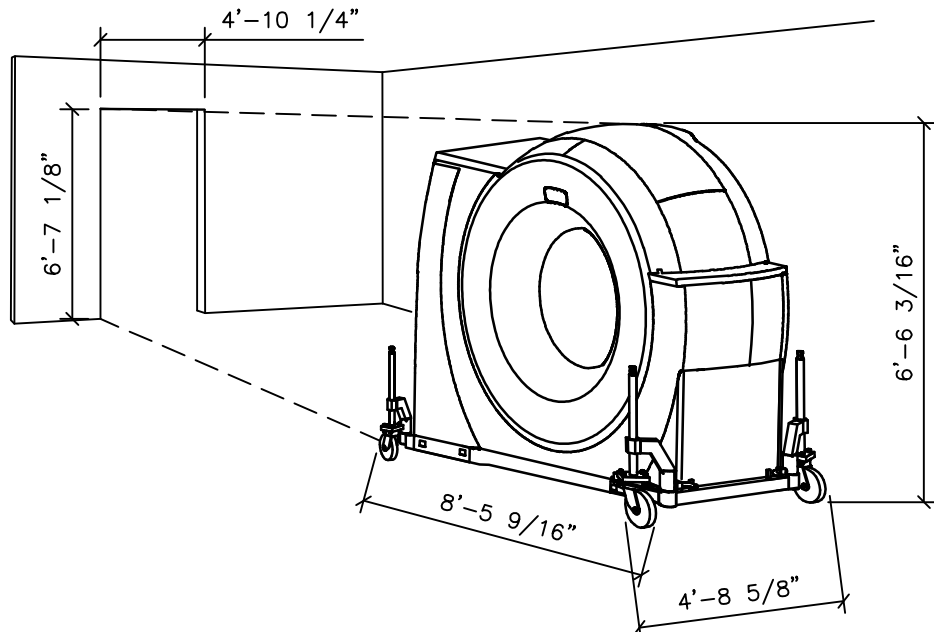
CASEWORK & ACCESSORY NOTES

- 1) ALL CASEWORK IS EITHER EXISTING OR IS TO BE DESIGNED, DETAILED, FURNISHED AND INSTALLED BY THE CUSTOMER AND/OR CONTRACTOR. FOLLOW DESIGN RECOMMENDATIONS INCLUDED HEREWITH, AS THEY ARE ESSENTIAL FOR THE SUCCESSFUL INSTALLATION & OPERATION OF THE SIEMENS EQUIPMENT.
- 2) ALL FURNITURE (CHAIRS, ETC.) FOR THE CONTROL ROOM ARE TO BE PROVIDED BY THE CUSTOMER.

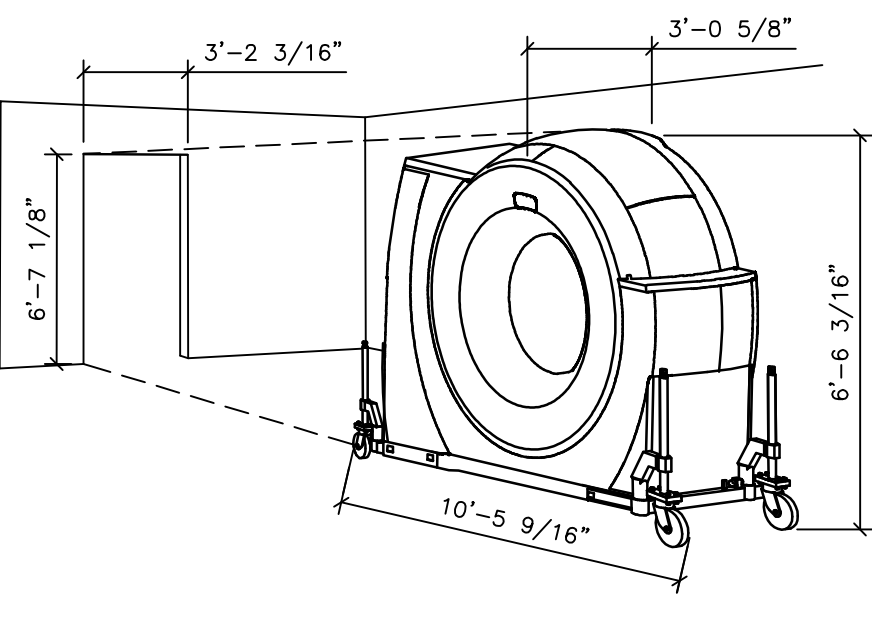
TRANSPORT AND DELIVERY NOTES

TOTAL GANTRY TRANSPORT WEIGHT: 5,267 LBS.  
GANTRY WITHOUT TRANSPORT DEVICE: 4,850 LBS.  
TRANSPORT DEVICE: 417 LBS.

NORMAL TRANSPORT REQUIREMENTS:  
DURING THE MOVEMENT OF THE GANTRY THROUGH CORRIDORS THE TRANSPORT CASTERS ARE SWIVELED OUT FOR STABILITY AS SHOWN BELOW. THE MAXIMUM WIDTH IS 4'-8 5/8" AND THE MAX. LENGTH IS 8'-5 9/16" WHEN CASTERS ARE SWIVELED OUT.



NARROW SPACE TRANSPORT REQUIREMENTS:  
WHEN TRANSPORTING THE GANTRY THROUGH A NARROW SPACE OR DOORWAY, THE TRANSPORT CASTERS ARE SWIVELED IN AS SHOWN BELOW. THE MAXIMUM WIDTH IS 3'-0 5/8" AND MAXIMUM LENGTH 10'-5 9/16".



FINISHED ROOM HEIGHT

FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"

ATTENTION

- THIS DRAWING IS DESIGNED TO CONFORM TO FEATURES AND EQUIPMENT REQUIREMENTS PRESENTED AT THE TIME OF THEIR PREPARATION. SINCE BOTH THESE FACTORS ARE SUBJECT TO DESIGN MODIFICATION, THEY ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES.  
- THIS SET OF PLANS REPRESENTS A COMPLETE SET OF DETAILS AND SHOULD NOT BE SEPARATED.

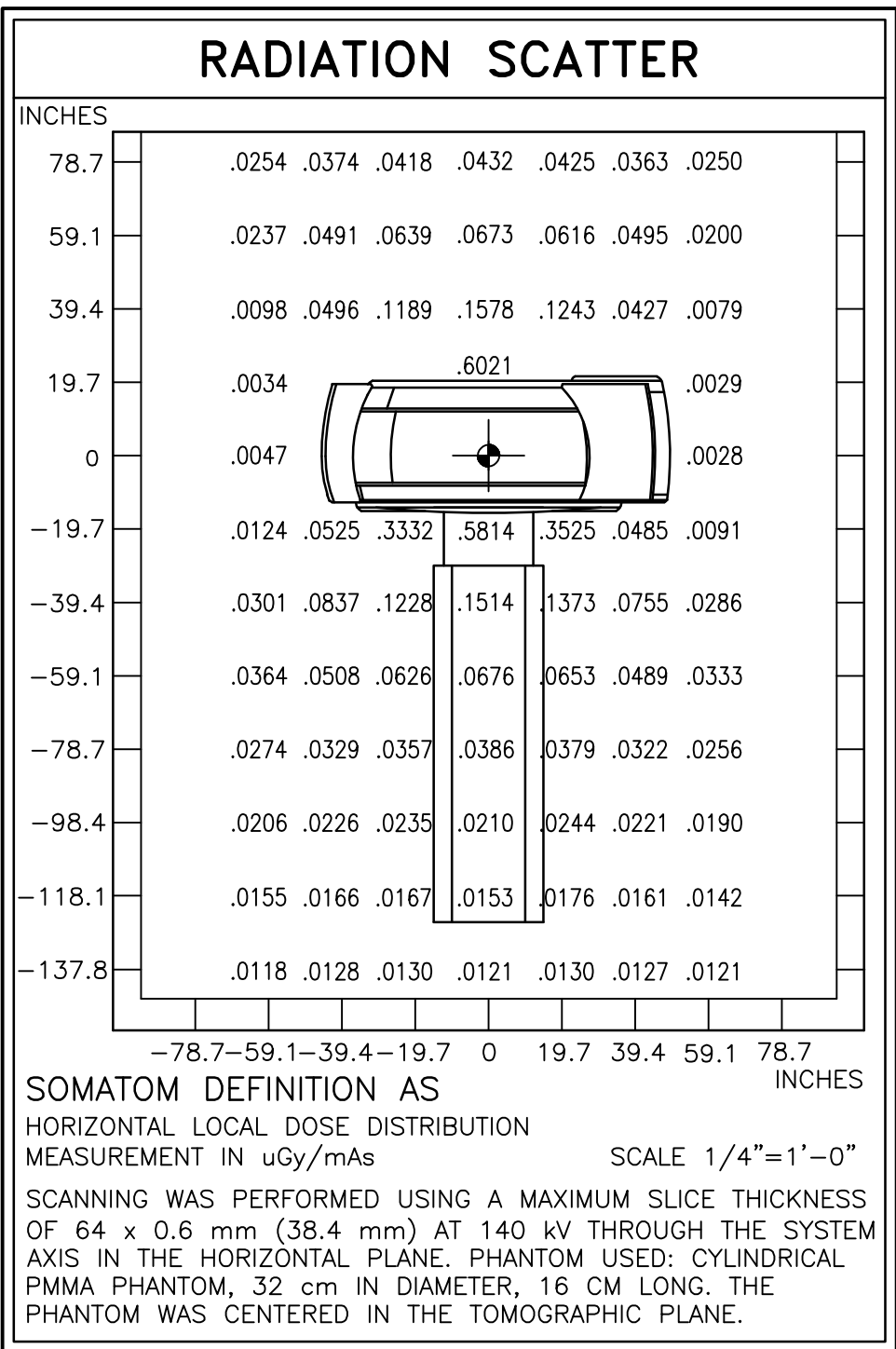
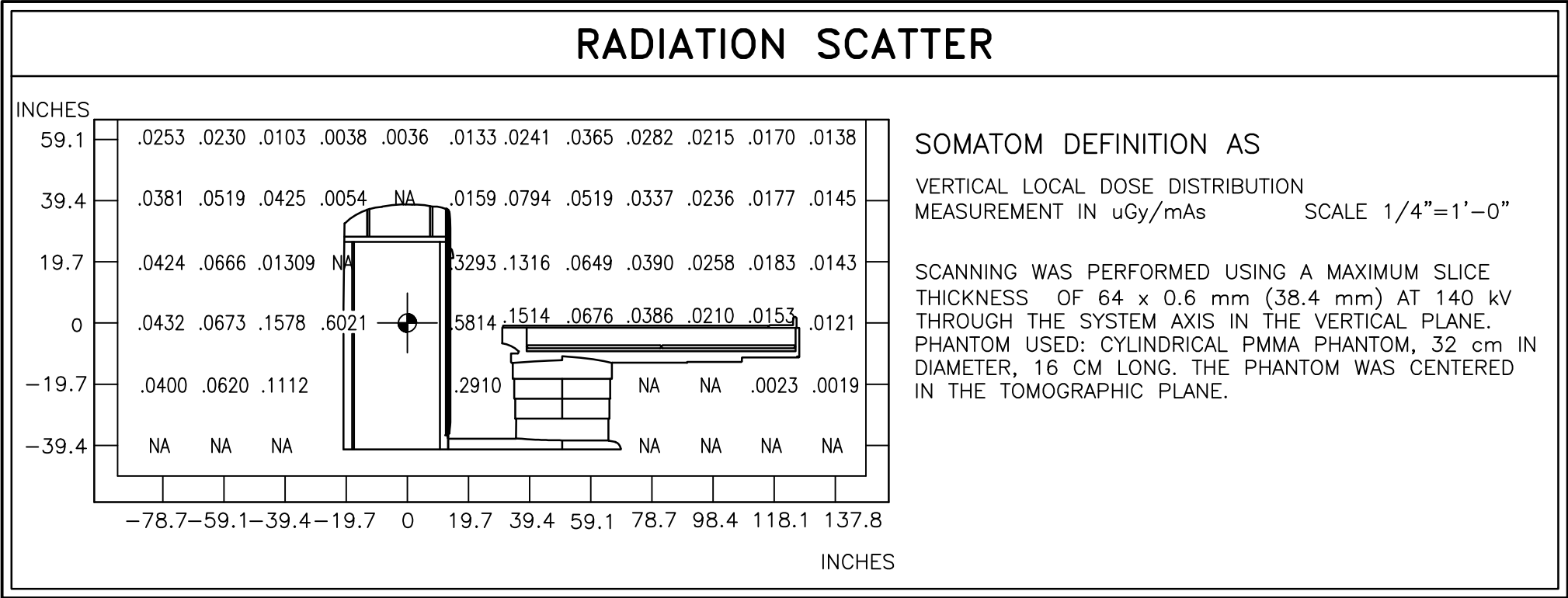
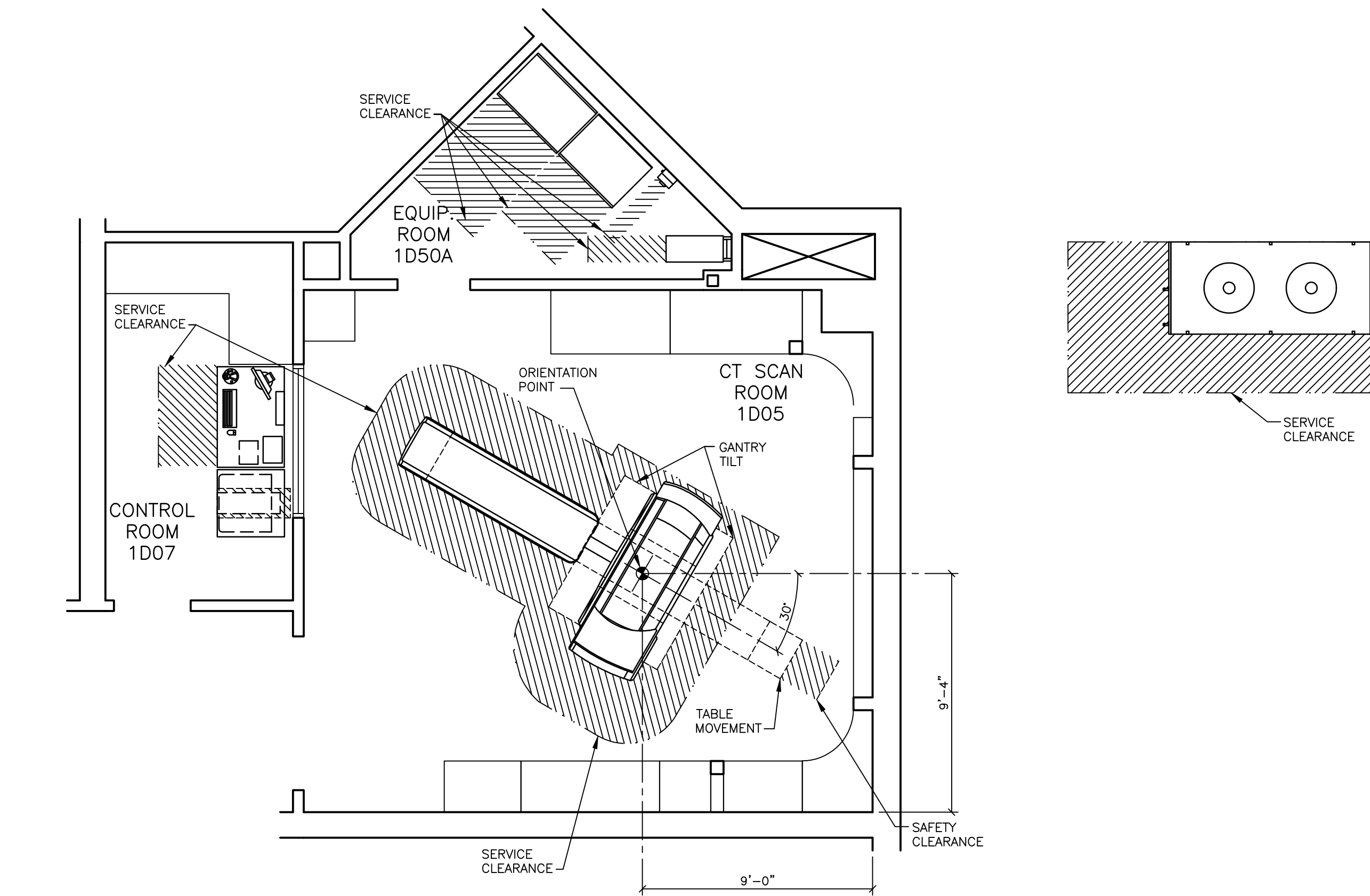
- IT IS RECOMMENDED THAT THE SIEMENS DRAWINGS BE INCORPORATED WITH THE CONSTRUCTION DOCUMENTS FOR REFERENCE.

- ALL DIMENSIONS SHOWN ON THIS DRAWING ARE FROM FINISHED SURFACES.  
- THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.



SAFETY/SERVICE CLEARANCE PLAN

SCALE: 1/4" = 1'-0"



SAFETY CLEARANCE NOTE

IF THE SAFETY DISTANCES ARE NOT OBSERVED, SAFETY MEASURES IN ACCORDANCE WITH LOCAL CODES SHOULD BE UTILIZED (FOR EXAMPLE BARRIERS, WARNING SIGNS, AND SAFETY MATS).

SIEMENS REMOTE SERVICES (SRS)

TO ENSURE THE UPTIME OF YOUR SYSTEM DURING THE WARRANTY PERIOD (AND BEYOND WITH A SERVICE AGREEMENT), SIEMENS REMOTE SERVICES (SRS) REQUIRES REMOTE LOCAL AREA NETWORK ACCESS TO SIEMENS SYSTEMS.

SRS REQUIRES ONE OF THE FOLLOWING CONNECTION METHODS:

(PREFERRED) VPN CONNECTION

THE PREFERRED CONNECTION METHOD IS (VPN) VIRTUAL PRIVATE NETWORK (WHERE THE CUSTOMER HAS AVAILABLE A VPN CAPABLE FIREWALL OR OTHER VPN APPLIANCE). THIS METHOD PROVIDES THE POSSIBILITY FOR REMOTE SYSTEM DIAGNOSTICS WITHOUT ADDITIONAL HARDWARE. PLEASE CONTACT SIEMENS REMOTE SERVICES (800-888-SIEM) TO DETERMINE IF THIS METHOD IS SUITABLE FOR YOUR SITE.

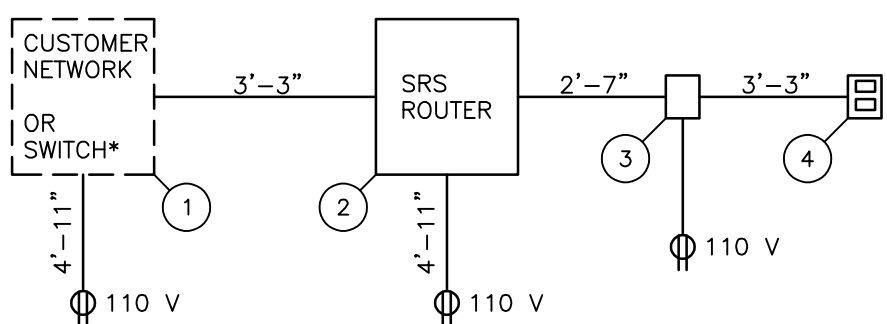
(OPTIONAL) SRS ROUTER CONNECTION

THE SRS ROUTER IS SUPPLIED BY SIEMENS AND INSTALLED AT THE CUSTOMER'S SITE, WHILE STILL REMAINING THE PROPERTY OF SIEMENS. THE CUSTOMER'S NETWORK ADMINISTRATOR AND SIEMENS REMOTE SERVICES SHALL DETERMINE THE TYPE AND LOCATION OF THE SRS ROUTER REQUIRED.

THE SRS ROUTER IS CONNECTED TO AN ANALOG MODEM THAT IS SUPPLIED BY SIEMENS, WHICH THEN IN TURN IS CONNECTED TO AN ANALOG PHONE LINE THAT IS SUPPLIED BY THE CUSTOMER. ONE SRS ROUTER ALLOWS REMOTE DIAGNOSTICS TO MULTIPLE MEDICAL SYSTEMS.

THE SRS ROUTER SHOULD BE INSTALLED IN A SECURE LOCATION (CUSTOMER'S NETWORK COMPUTER ROOM) THAT HAS LIMITED ACCESS. IT CAN BE LOCATED ON A SHELF, TABLE, OR IN A CABINET. THE CONNECTION CABLES (WITH INDICATED LENGTHS BELOW) ARE INCLUDED WITH DELIVERY.

SRS ROUTER CONNECTION DIAGRAM



NOTE: ALL POWER OUTLETS ARE SUPPLIED/INSTALLED BY CUSTOMER.

- 1 ETHERNET SWITCH OR HUB, SUPPLIED BY CUSTOMER
- 2 SRS ROUTER, SUPPLIED BY SIEMENS (SIZE: 11.2"W X 8.7"D X 5.5"H, WEIGHT: 2 LBS.)
- 3 ANALOG MODEM, SUPPLIED BY SIEMENS
- 4 ANALOG PHONE LINE, SUPPLIED BY CUSTOMER

\* OPTIONAL SWITCH AND CABLES ARE NOT INCLUDED, BUT CAN BE ORDERED FROM SIEMENS.

SIEMENS REMOTE SERVICE

SCALE: NONE

FINISHED ROOM HEIGHT

FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"

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500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148-0002

CT SUITE 1D05 - SOMATOM DEFINITION AS 128

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PROJECT #:  
1301723

SHEET:

A-102

ALL RIGHTS ARE RESERVED.

SCALE: AS NOTED REF. # 30164507

SHEET 2 OF 9 DRAWN BY: J. DRAMIS

DATE: 06/06/13 CHECKED:

ATTENTION

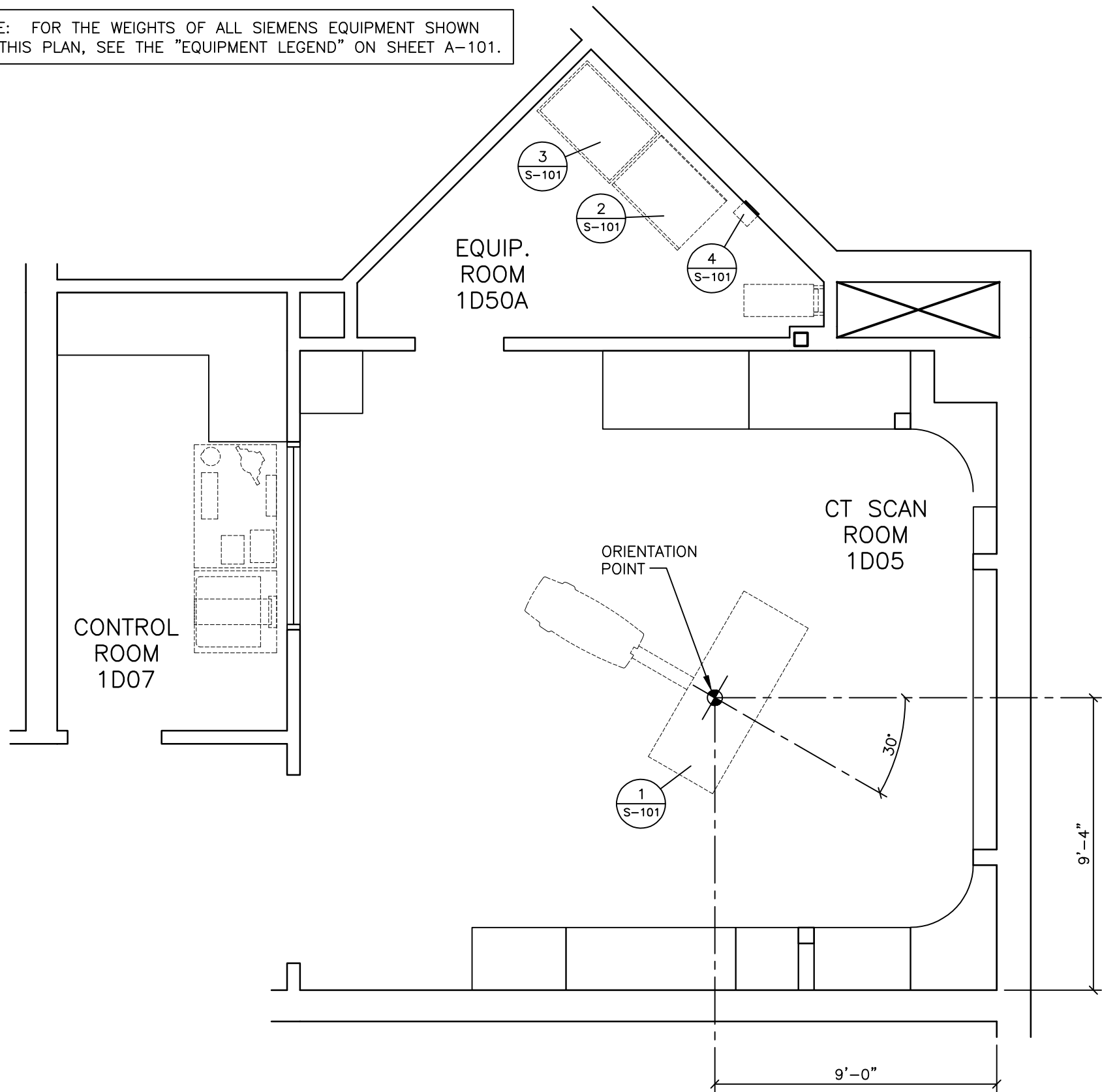
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DEFINITION AS  
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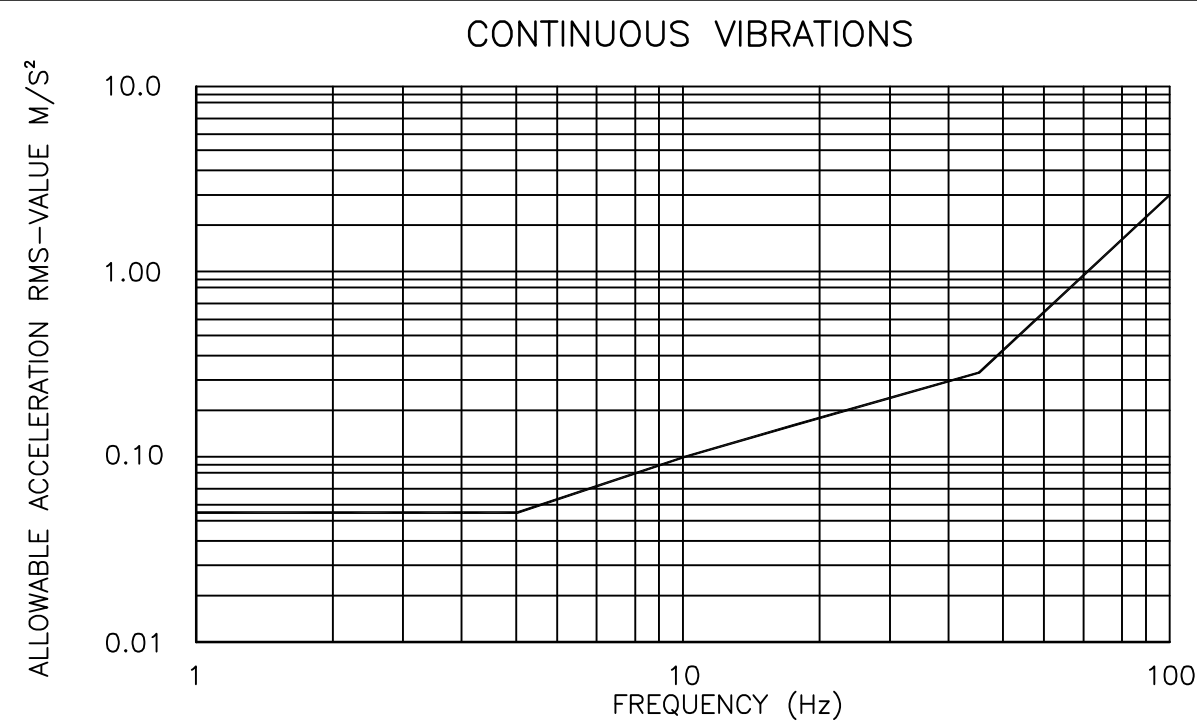
NOTE: FOR THE WEIGHTS OF ALL SIEMENS EQUIPMENT SHOWN ON THIS PLAN, SEE THE "EQUIPMENT LEGEND" ON SHEET A-101.



## STRUCTURAL FLOOR PLAN

SCALE: 1/4" = 1'-0"

## FLOOR AND BUILDING VIBRATIONS



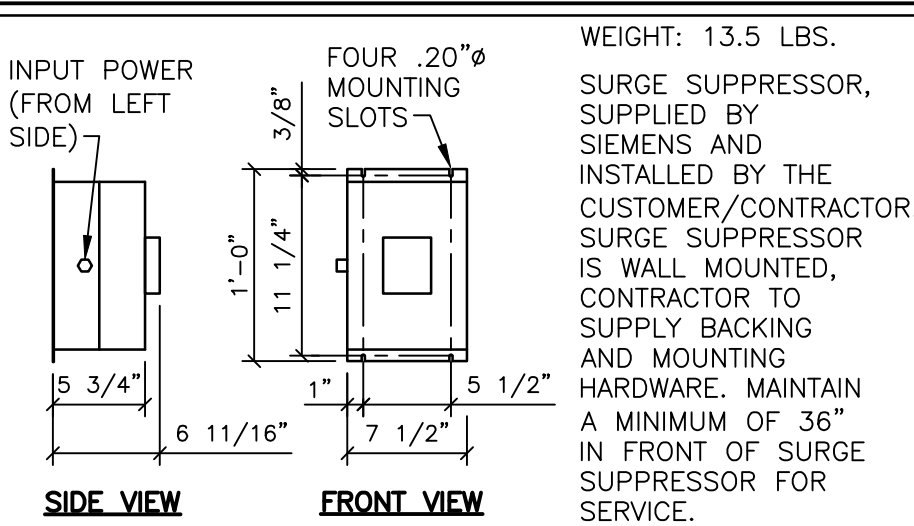
THRESHOLD VALUES OF ALLOWABLE ACCELERATION (RMS VALUE OF 1 Hz RESOLUTION FFT)

FREQUENCY (Hz)	ACCELERATION RMS (M/S²)
1	0.055
2	0.055
3	0.055
4	0.055
5	0.055
6	0.064
7	0.074
8	0.083
9	0.092
10	0.101
11	0.109
12	0.118
13	0.127
14	0.135
15	0.143
16	0.152

FREQUENCY (Hz)	ACCELERATION RMS (M/S²)
17	0.160
18	0.167
19	0.174
20	0.181
25	0.213
30	0.244
35	0.274
40	0.302
45	0.330
50	0.442
55	0.575
60	0.731
80	1.619
100	3.000

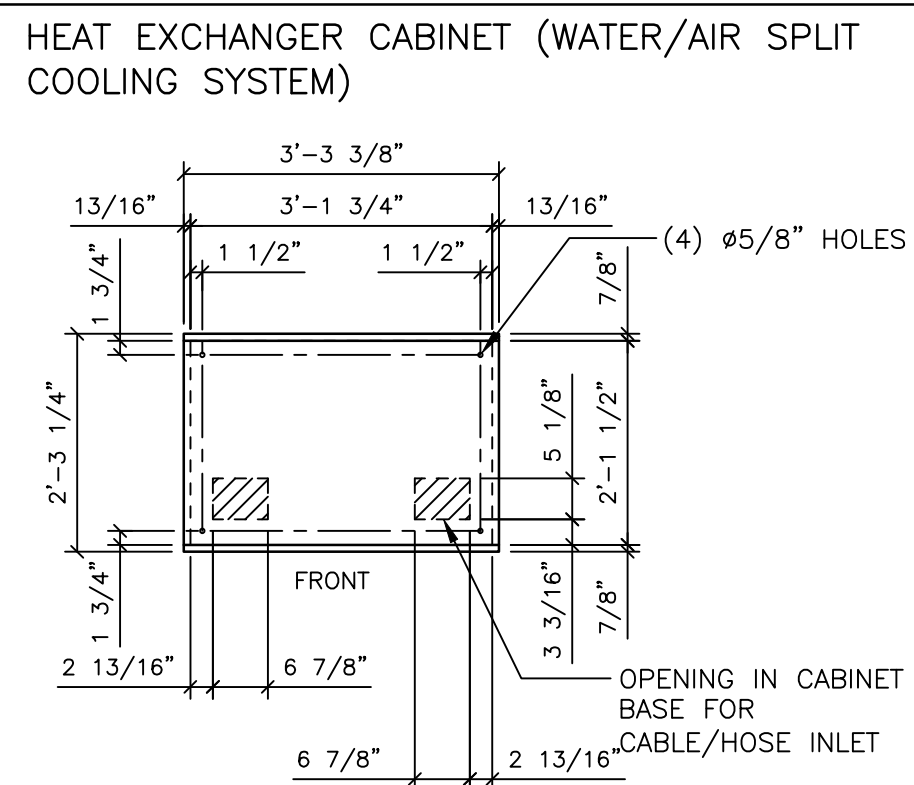
### TRANSIENT VIBRATIONS (SHOCKS)

ANY TRANSIENT VIBRATION HAS TO BE LESS THAN 0.5 M/S² PEAK-TO-PEAK IN THE TIME DOMAIN. THE VIBRATIONS HAVE TO BE MEASURED WITH A SAMPLING RATE OF 1000Hz.



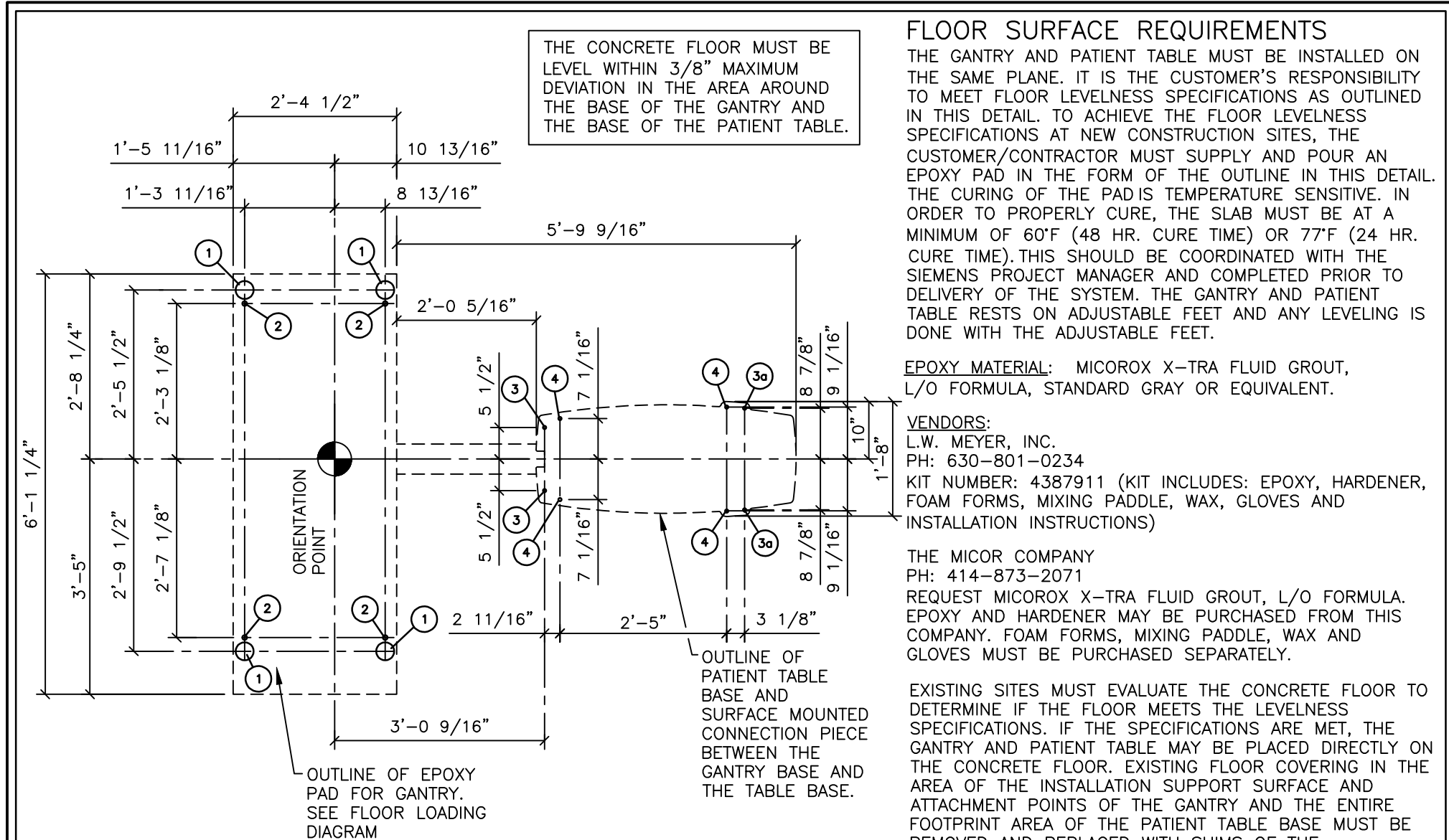
PARALLEL SURGE SUPPRESSOR UNIT MUST BE LOCATED WITHIN 3 FEET OF CIRCUIT BREAKER.

4 SURGE SUPPRESSOR SCALE: NONE



BOLTING THE HEAT EXCHANGER CABINET TO THE FLOOR IS ONLY NECESSARY WHEN LOCAL OR NATIONAL REGULATIONS REQUIRE IT. (EXAMPLE: EARTHQUAKE ZONES). BOLT THE CABINET TO THE FLOOR USING ANCHORS THROUGH THE DRILL HOLES IN THE FLOOR PLATE. MATERIALS FOR BOLTING MUST BE SUPPLIED ON-SITE.

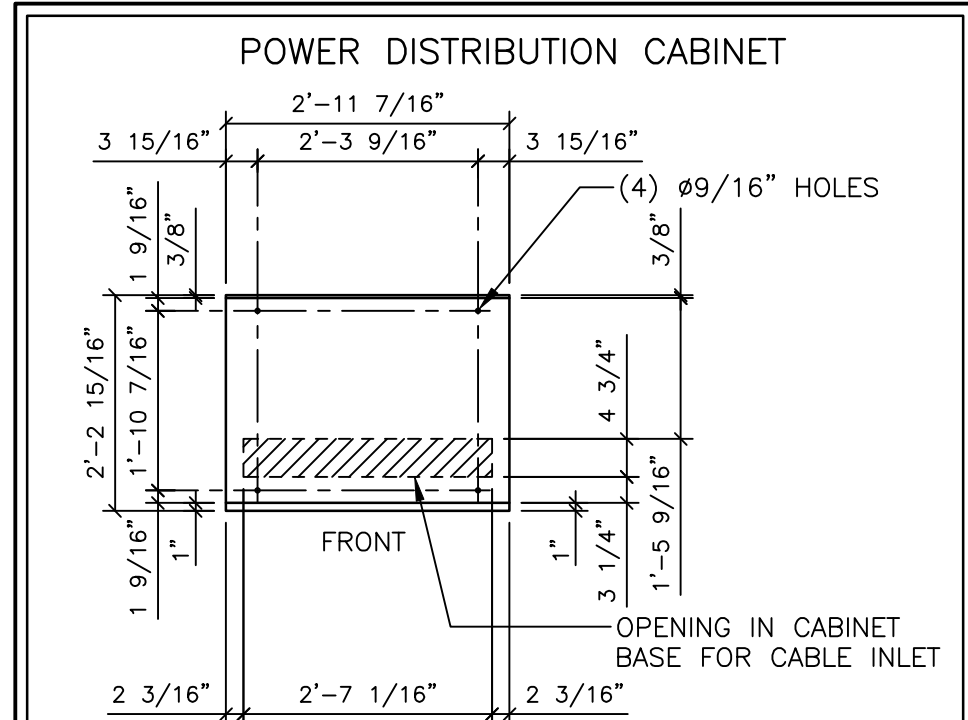
3 HE CABINET BASE SCALE: 1/2"=1'-0"



THE GANTRY AND PATIENT TABLE ARE SUPPLIED AND INSTALLED BY SIEMENS.

- (4) ADJUSTABLE FEET OF GANTRY - #3 1/8".
- (4) #7/8" HOLES IN THE GANTRY BASE FOR MOUNTING THE GANTRY TO THE FLOOR IF REQUIRED, EX. EARTHQUAKE ZONES.
- (4) #1 3/16" MOUNTING HOLES / ADJUSTABLE FEET TO MOUNT THE PATIENT TABLE TO THE FLOOR.
- (36) MAXIMUM POSSIBLE EXTRACTION FORCE AT THESE POINTS IS 2324 POUNDS WITH A 661 POUND PATIENT (INCLUDES SAFETY-FACTOR 4).
- ALTERNATE MOUNTING HOLES, IF ADJUSTABLE FEET/MOUNTING HOLE (#3) LOCATIONS ARE NOT USABLE.

1 GANTRY AND PATIENT TABLE MOUNTING DETAIL SCALE: 1/2"=1'-0"



BOLTING THE POWER DISTRIBUTION CABINET TO THE FLOOR IS ONLY NECESSARY WHEN LOCAL OR NATIONAL REGULATIONS REQUIRE IT. (EXAMPLE: EARTHQUAKE ZONES). BOLT THE CABINET TO THE FLOOR USING ANCHORS THROUGH THE DRILL HOLES IN THE FLOOR PLATE. MATERIALS FOR BOLTING MUST BE SUPPLIED ON-SITE.

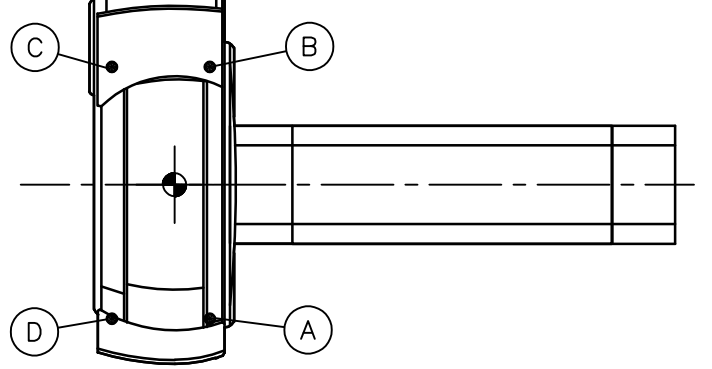
2 PDC CABINET BASE SCALE: 1/2"=1'-0"

## STRUCTURAL NOTES

- THE CUSTOMER/CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL SUPPORT MEMBERS AND NEEDED HARDWARE FOR THE INSTALLATION OF THE SIEMENS EQUIPMENT.
- THE OVERHEAD STRUCTURAL SUPPORT SYSTEM SHALL BE FIXED, RIGID AND BRACED FOR SWAY.
- ALL STRUCTURAL SUPPORT MEMBERS SHALL BE TRUE, SQUARE, LEVEL, PARALLEL AND COPLANAR WITH RESPECT TO EACH OTHER, WITH A HORIZONTAL STRUCTURAL SUPPORT MEMBER TO BE LOCATED AND SET WITH A TRANSIT.
- ALL STRUCTURAL SUPPORT DETAILS SHOWN ARE SAMPLE DETAILS BASED UPON TYPICAL AND STANDARD BUILDING PRACTICES AND ARE NOT INTENDED AS ACTUAL CONSTRUCTION DETAILS. ALL CONSTRUCTION DETAILS AND SUPPORT CALCULATIONS SHALL BE PREPARED BY A PROFESSIONAL STRUCTURAL ENGINEER AT THE CUSTOMER'S EXPENSE. IN THE EVENT AN EXISTING SUPPORT SYSTEM IS TO BE USED, IT WILL BE THE CUSTOMER'S RESPONSIBILITY TO VERIFY THE INTEGRITY OF THAT SYSTEM.
- WHERE SHOWN ON THE 1/4" STRUCTURAL FLOOR PLAN, THERE ARE ON OCCASION MOUNTING FRAMES FURNISHED BY SMS. THESE FRAMES ARE TO BE SET BY THE CONTRACTOR, UNDER THE SUPERVISION OF SMS PERSONNEL. THE CUSTOMER/CONTRACTOR IS RESPONSIBLE FOR ALL FRAMES INSTALLED BY HIM TO BE WATER LEVEL AND ANCHORED PROPERLY.
- ALL CEILING FIXTURES (I.E. AIR SUPPLY GRILLES, AIR RETURN GRILLES, EXHAUST GRILLES, SPRINKLER HEADS, INCANDESCENT AND FLUORESCENT LIGHT FIXTURES, INTERCOM SPEAKERS, MEDICAL GAS COLUMNS, ETC.) SHALL BE INSTALLED FLUSH MOUNTED WITH THE FINISHED CEILING TO PROVIDE FREE AND UNRESTRICTED TRAVEL OF THE SMS CEILING MOUNTED EQUIPMENT.
- THE BOTTOM SIDE OF THE UNISTRUT CEILING GRID AND ANY CEILING MOUNTED SUPPORT PLATES ARE TO BE INSTALLED FLUSH WITH THE FINISHED CEILING. THE CUSTOMER/CONTRACTOR SHALL ALSO PROVIDE COVERSTRIPS FOR THE UNISTRUT.
- THE STRUCTURAL PLANNING AS SHOWN ON THE 1/4" STRUCTURAL FLOOR PLAN HAS BEEN COORDINATED WITH THE EQUIPMENT LOCATION AS SHOWN ON THE 1/4" EQUIPMENT LAYOUT PLAN. FOR THIS REASON, ANY DEVIATIONS FROM THE STRUCTURAL PLANNING AS SHOWN MUST BE APPROVED BY SMS PLANNING DEPARTMENT.
- THE STRUCTURAL ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE DESIGN AND DETAIL OF FLOOR, WALL AND CEILING STRUCTURES IN ACCORDANCE WITH THE WEIGHTS, MOMENTS AND FORCES AS SHOWN ON OUR STRUCTURAL CALCULATIONS, OR INFORMATION, IN CONSIDERATION OF FORCES AS DETERMINED PER LOCAL GOVERNING BUILDING CODES.

## FLOOR LOADING

DESCRIPTION			
F-STAT MAX	STATIC FLOOR LOADING DUE TO GANTRY'S OWN WEIGHT		
AMPLITUDE	DIFFERENCE BETWEEN MINIMUM AND MAXIMUM FLOOR LOADING DURING GANTRY ROTATION		
MEASUREMENT POINTS			
ADJUSTABLE FOOT	F-STAT MAX (POUNDS)	AMPLITUDE FOR F DYN (POUNDS)	BEARING AREA PER ADJUSTABLE FOOT
(A)	1034	±135	7 3/4 IN <sup>2</sup>
(B)	1540	±112	
(C)	1248	±112	
(D)	1034	±135	



### NOTE:

- THE VALUES PROVIDED FOR FLOOR LOADING APPLY ONLY IF THE GANTRY IS SATISFACTORILY LEVELED.
- THE FLOOR STRUCTURE MUST BE CAPABLE OF WITHSTANDING THE OCCUPIED WEIGHT OF THE GANTRY AND THE INDIVIDUAL CONTACT AREA LOADING.

ATTENTION

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THIS DRAWING DOES NOT PROVIDE RADIATION SHIELDING REQUIREMENTS FOR X-RAY AND ASSOCIATED EQUIPMENT. THE CUSTOMER IS RESPONSIBLE FOR CONSULTING WITH A REGISTERED RADIATION PHYSICIST TO SPECIFY RADIATION PROTECTION.

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VA SALT LAKE CITY HEALTH CARE 500 FOOTHILL DRIVE, SALT LAKE CITY, UT 84148-0002 CT SUITE 1005 - SOMATOM DEFINITION AS 128	
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SCALE: AS NOTED	REF: #30164507
DATE: 06/06/13	CHECKED:

DEFINITION AS  
05/03/13

SIEMENS

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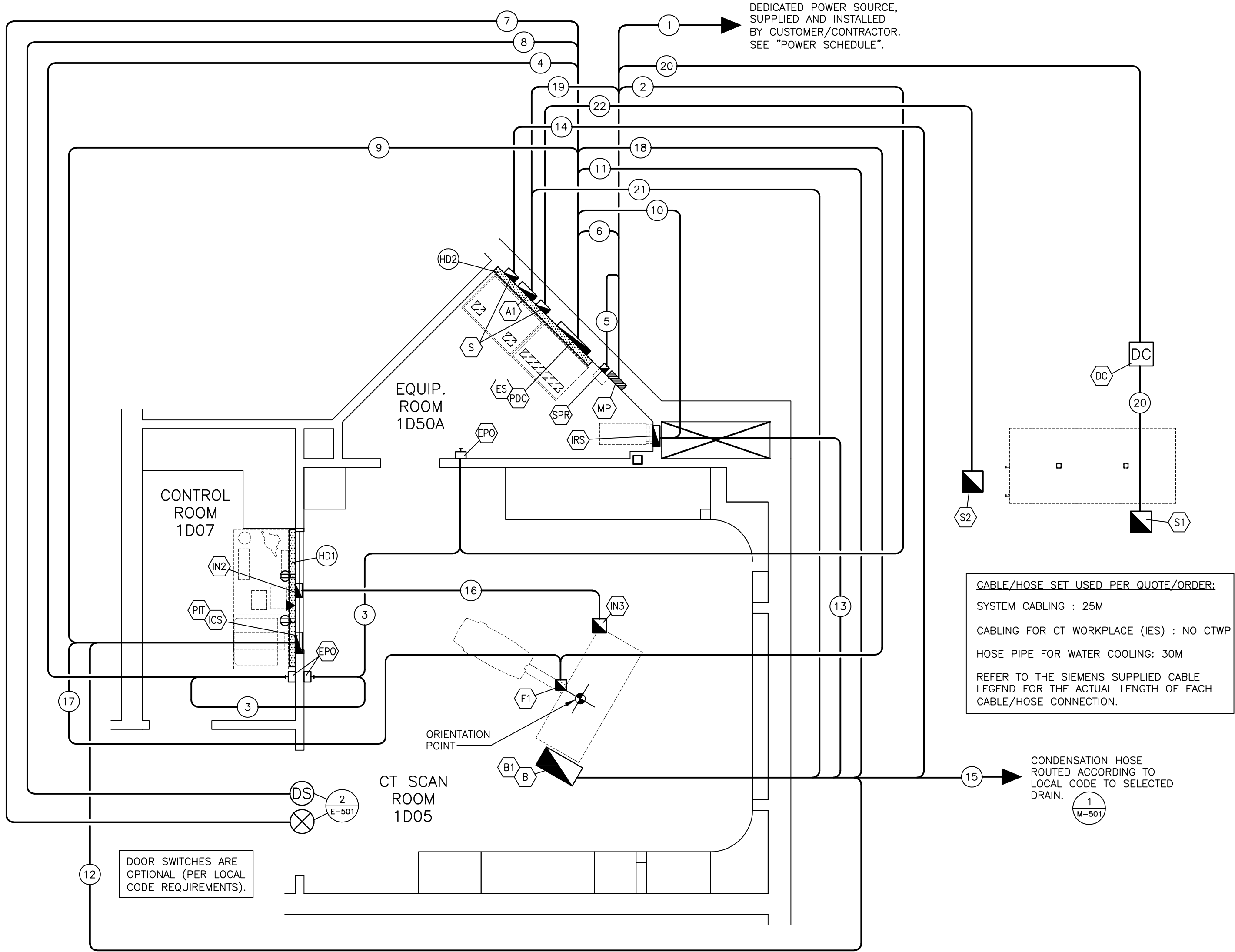
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S-101







ELECTRICAL RACEWAY PLAN

SCALE: 1/4" = 1'-0"

SYMBOLS	
ALL MAY NOT APPLY	
	MAIN PANEL OR ENCLOSURE BY CUSTOMER/CONTRACTOR
	OPENING IN RACEWAY OR TRENCHDUCT
	PULLBOX IN (FLOOR/WALL/CEILING)
	OPENING IN ACCESS FLOORING
	WARNING LIGHT (X-RAY ON)
	DOOR SAFETY SWITCH
	(EPO) EMERGENCY POWER OFF BUTTON
	TRENCHDUCT
	CEILING DUCT
	UNDER FLOOR DUCT
	SURFACE DUCT
	VERTICAL DUCT
	ETHERNET CONNECTION TO CUSTOMER'S INFORMATION SYSTEMS NETWORK (VERIFY WITH SMS PROJECT MANAGER).
	110 VOLT, 20 AMP, HOSPITAL GRADE DUPLEX OUTLET UNLESS OTHERWISE STATED.

CONTRACTOR SUPPLIED CABLES				
FROM	VIA	TO	DESCRIPTION	REMARKS
POWER SOURCE	1	MP	3-PHASE CONDUCTORS, 1 NEUTRAL, 1 GROUND, ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	2	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	3	EPO	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
EPO	4	PDC	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	5	SPR	3-PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
MP	6	PDC	3 PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND ALL TO BE THE SAME SIZE, MAX. 3/0. SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
PDC	7	WARNING LIGHT	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	
PDC	8	DS	DETERMINED BY ELECTRICAL ENGINEER OF RECORD.	
MP	19,A1	S	3 PHASE CONDUCTORS, 1 NEUTRAL AND 1 GROUND ALL TO BE THE SAME SIZE. SIZED BY ELECTRICAL ENGINEER OF RECORD.	W/A SPLIT COOLING SYSTEM SEE POWER SCHEDULE

POWER QUALITY	
POOR POWER WILL ALTER EQUIPMENT PERFORMANCE	
IT IS IN THE CUSTOMER'S INTEREST THAT THE ELECTRICAL CONTRACTOR BE RESPONSIBLE FOR TESTING AND VERIFYING THAT THE EQUIPMENT POWER SUPPLY COMPLIES WITH THE SIEMENS SPECIFICATIONS.	

ELECTRICAL LEGEND			
SYM	SIZE	DESCRIPTION	REMARKS
(A)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOORLINE IN SHOWN LOCATION.	
(B/B1)	12" x 24"	PULL BOX MOUNTED FLUSH WITH FINISHED FLOOR IN SHOWN LOCATION.	GANTRY CABLE ACCESS
(C)	---	DISCONNECT SWITCH MOUNTED NEAR OUTDOOR UNIT TO DISCONNECT POWER SUPPLY FROM INDOOR UNIT. SUPPLIED BY SIEMENS, INSTALLED BY CUSTOMER/CONTRACTOR IN ACCORDANCE WITH LOCAL CODES.	OUTDOOR UNIT-WATER/AIR SPLIT
(E)	---	EMERGENCY POWER OFF BUTTON. EXACT LOCATIONS TO BE DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE
(F)	---	ETHERNET SWITCH FOR ICS, IRS, GANTRY & PDC SUPPLIED BY SIEMENS. LOCATED INSIDE PDC CABINET.	
(G)	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING.	CARE VISION MONITOR CEILING MOUNT
(G1)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL IN CONTROL AREA 18" ABOVE FINISHED FLOOR IN SHOWN LOCATION.	IMAGE CONSTRUCTION SYS.
(H)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL IN CONTROL AREA.	INJECTOR ELECTRONICS
(H1)	AS REQUIRED	PULL BOX MOUNTED ABOVE FINISHED CEILING IN SHOWN LOCATION.	CEILING MTD. INJECTOR
(H2)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOORLINE IN SHOWN LOCATION.	IMAGE RECONSTRUCTION CAB.
(I)	3-PHASE	MAIN PANEL WITH MAIN BREAKER. EXACT LOCATION DETERMINED BY CUSTOMER/CONTRACTOR.	SEE POWER SCHEDULE.
(I1)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL AT FLOORLINE IN SHOWN LOCATION.	POWER DISTRIBUTION CAB.
(S)	AS REQUIRED	TWO PULL BOXES MOUNTED FLUSH WITH FINISHED FLOOR IN SHOWN LOCATIONS.	HEAT EXCHANGER CABINET-WATER/AIR SPLIT
(S1)	AS REQUIRED	PULL BOX THAT IS PROVIDED ON THE OUTDOOR COOLING UNIT.	OUTDOOR COOLING UNIT-WATER/AIR SPLIT
(S2)	AS REQUIRED	PULL BOX MOUNTED ADJACENT TO OUTDOOR COOLING UNIT PROVIDED WITH FLEX-TITE CONDUIT FROM PULL BOX TO WATER HOSE CONNECTIONS ON OUTDOOR COOLING UNIT.	OUTDOOR COOLING UNIT-WATER/AIR SPLIT
(S3)	AS REQUIRED	PULL BOX MOUNTED FLUSH WITH FINISHED WALL PROVIDED WITH 2" OPENING IN FINISHED COVER. THE SURGE SUPPRESSOR MUST BE LOCATED WITHIN 3 FEET CABLE RUN FROM CIRCUIT BREAKER, AT HEIGHT DETERMINED BY CUSTOMER/ CONTRACTOR.	SEE DETAIL S-101
(H1/H2)	10" x 3 1/2"	ELECTRICAL DUCT RUN HORIZONTALLY ON THE WALL AT THE FLOORLINE AND SURFACE MOUNTED ON FINISHED WALL AS SHOWN FOR EXCESS CABLE STORAGE.	RACEWAY
(1)	AS REQUIRED	CONDUIT FROM POWER SOURCE TO "MP" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(2)	AS REQUIRED	CONDUIT FROM "MP" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(3)	AS REQUIRED	CONDUIT FROM "EPO" TO "EPO" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(4)	AS REQUIRED	CONDUIT FROM "EPO" TO "PDC", SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(5)	AS REQUIRED	CONDUIT FROM "MP" TO "SPR" SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(6)	AS REQUIRED	CONDUIT FROM "MP" TO "PDC", SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(7)	AS REQUIRED	CONDUIT FROM "PDC" TO "WARNING LIGHT".	
(8)	AS REQUIRED	CONDUIT FROM "PDC" TO "DS".	
(9)	2-1/2"	CONDUIT FROM "PDC" TO "ICS/PIT".	MAX. CONDUIT LENGTH 82'-0"
(10)	2"	CONDUIT FROM "PDC" TO "IRS".	MAX. CONDUIT LENGTH 82'-0"
(11)	(3) 3"	CONDUITS FROM "PDC" TO "B" WITH A MINIMUM 6" BENDING RADIUS.	MAX. CONDUIT LENGTH 82'-0"
(12)	3"	CONDUIT FROM "B" TO "ICS/PIT".	MAX. CONDUIT LENGTH 82'-0"
(13)	1-1/2"	CONDUIT FROM "B" TO "IRS".	MAX. CONDUIT LENGTH 82'-0"
(14)	(2) 3"	CONDUITS FROM "S" TO "B1". TO CONTAIN SIEMENS COOLING WATER HOSES WITH A MINIMUM 6" BENDING RADIUS.	MAX. CONDUIT LENGTH 96'-0" SEE SHEET M-101
(15)	1"	CONDUIT, IF REQUIRED PER LOCAL CODE, FOR CONDENSATION HOSE FROM "B1" TO SELECTED DRAIN TYPE. THE MINIMUM BENDING RADIUS IS 1 3/16".	MAX. CONDUIT LENGTH 32'-9"
(16)	2-1/2"	CONDUIT FROM "IN2" TO "IN3", VERIFY LENGTH RESTRICTIONS WITH MANUFACTURER.	
(17)	2-1/2"	CONDUIT FROM "ICS" TO "F1".	MAX. CONDUIT LENGTH 82'-0"
(18)	2-1/2"	CONDUIT FROM "PDC" TO "F1".	MAX. CONDUIT LENGTH 68'-0"
(19)	AS REQUIRED	CONDUIT FROM "MP" TO "A1" (S), SIZED BY ELECTRICAL ENGINEER OF RECORD.	SEE POWER SCHEDULE
(20)	1-1/2"	CONDUIT FROM "A1" (S) TO "DC" AND "DC" TO "S1".	MAX. CONDUIT LENGTH 131'-0"
(21)	1-1/2"	CONDUIT FROM "A1" (S) TO "B".	MAX. CONDUIT LENGTH 98'-0"
(22)	(2) 3"	CONDUITS, IF REQUIRED PER LOCAL CODE, FROM "S" TO "S2". THE MINIMUM BENDING RADIUS IS 12.5".	MAX. CONDUIT LENGTH 131'-0" SEE SHEET M-101

SIEMENS SUPPLIED CABLES				
FROM	VIA	TO	DESCRIPTION	REMARKS
PDC	9	ICS/PIT	POWER CABLE; W8:330V, W12:300V, W34:GND DATA CABLE; W61:30V, W63:30V	MAXIMUM LENGTH 82'-0"
PDC	10	IRS	POWER CABLE; W7:300V, W33:GND DATA CABLE; W57:30V, W65:30V	MAXIMUM LENGTH 82'-0"
PDC	11	B	POWER CABLE; W1:600V, W2:600V, W3:600V, W4:HIGH VOLTAGE, W9:300V, W30:GND DATA CABLE; W53:30V, W54:30V, W59:30V, W74:FIBER	MAXIMUM LENGTH 82'-0"
B	12	ICS/PIT	CONTROL CABLE; W51:300V	MAXIMUM LENGTH 82'-0"
B	13	IRS	DATA CABLE; W70:FIBER, W98:30V	MAXIMUM LENGTH 82'-0"
S	14	B1	WATER HOSES	MAXIMUM LENGTH 96'-0"
B1	15	DRAIN	CONDENSATION HOSE	MAXIMUM LENGTH 32'-9"
IN2	16	IN3	INJECTOR CABLE	
ICS	17	F1	CONTROL CABLE	MAXIMUM LENGTH 82'-0"
PDC	18	F1	POWER CABLE	MAXIMUM LENGTH 68'-0"
S	A1,20,DC,20	S1	POWER CABLE AND CONTROL CABLE; W820:600V	MAXIMUM LENGTH 131'-0"
S	A1,21	B	DATA CABLE; W821:30V	MAXIMUM LENGTH 98'-0"
S	22	S2	WATER HOSES	MAXIMUM LENGTH 131'-0"

FINISHED ROOM HEIGHT	
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"

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PROJECT #:  
**1301723**

SHEET:  
**E-101**

SHEET 5 OF 9

DRAWN BY: J. DRAMIS

CHECKED:

DATE: 06/06/13

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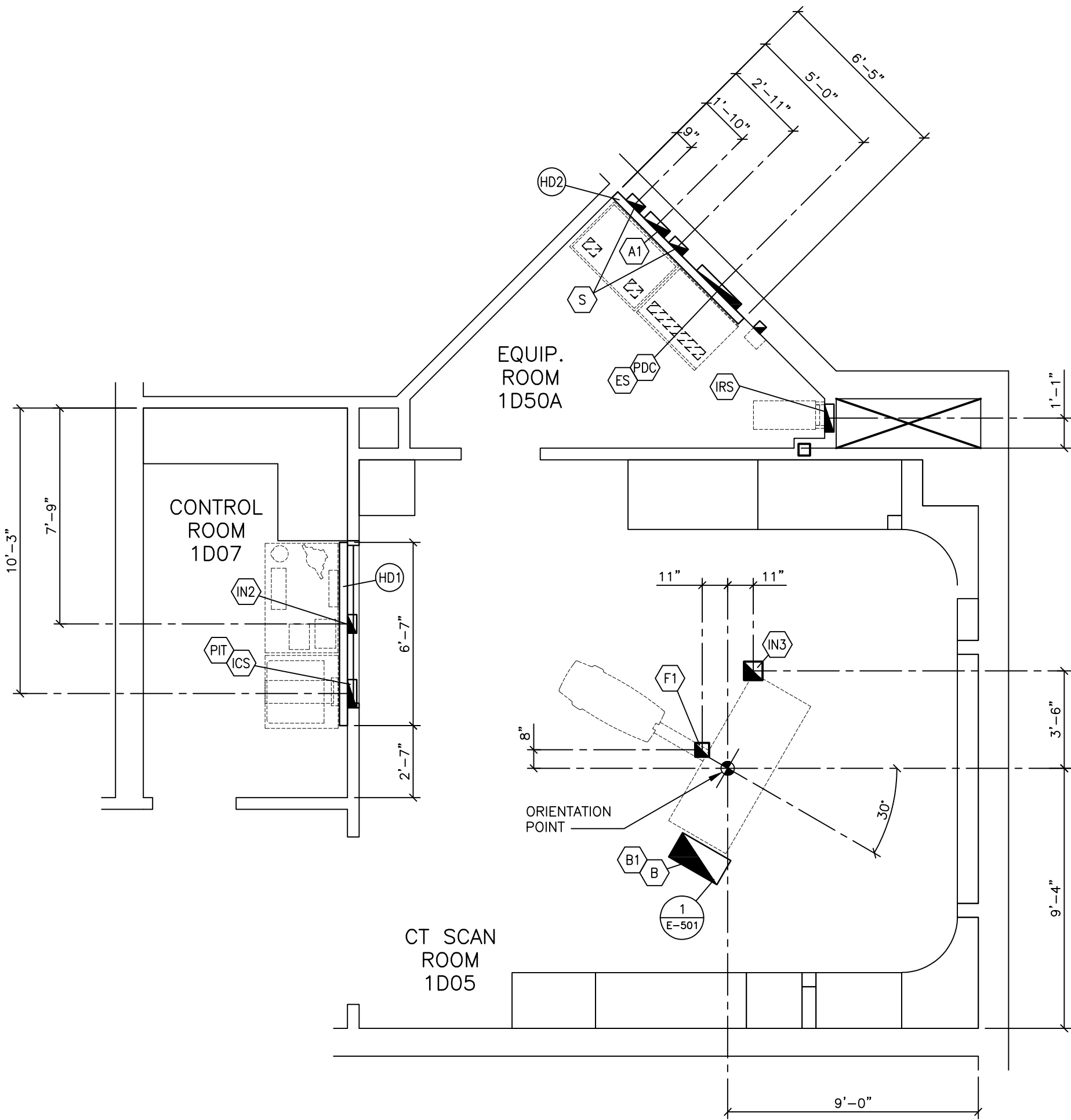
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DEFINITION AS  
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ELECTRICAL DIMENSION PLAN

SCALE: 1/4" = 1'-0"

FINISHED ROOM HEIGHT	
FOR CT GANTRY ONLY	MINIMUM 7'-6 9/16"
CAREVISION MONITOR/CEILING MOUNT	MIN. 8'-7 1/2" MAX. 11'-2 5/8"

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			VA SALT LAKE CITY HEALTH CARE		
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			1301723		E-102
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			SHEET 6 OF 9		DRAWN BY: J. DRAMIS
			DATE: 06/06/13		CHECKED:
			-ISSUE BLOCK-		

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